

Application No. 10/564,530

Docket No. 2134-033

**AMENDMENTS TO THE CLAIMS:**

This listing of claims replaces all prior versions and listings of claims in the application:

**Listing of Claims:**

1. (Currently amended) HF connector for connecting a coaxial plug connector to an HF transmission line on a circuit board, the HF connector comprising:

at least a first pair of spring blades arranged for electrically contacting a central conductor of the coaxial plug connector[[:]], and at least a second pair of spring blades arranged for electrically contacting an outer conductor of the coaxial plug connector[[:]], at least one of the spring blades of the first pair [[has]] having, on an end facing away from the coaxial plug connector, a contact surface for electrically connecting the HF connector to the HF transmission line on the circuit board and for mechanical connection with the circuit board[[:]], and at least one spring blade of the second pair [[has]] having, on an end facing away from the coaxial plug connector, a contact surface for electrically connecting the HF connector to a chassis contact on the circuit board and for mechanical connection with the circuit board, the connector having a housing that carries all the spring blades, the housing having at least one peg which extends away from the housing for engaging the circuit board, the at least one peg being arranged for engaging a metallised hole in the circuit board, the peg having at least one detent lug which extends in the radial direction in relation to the peg, beyond the lug outer periphery, the detent lug being arranged on the peg such that the outer periphery of the peg is smaller in the region of the detent lug than the diameter of the hole in the circuit board, whereby the outer periphery of the section of

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the peg protruding into the hole in the circuit board is such that between the outer periphery of the section of the peg and the inner wall of the hole in the circuit board, over at least a portion of the outer periphery, there is an intermediate space with capillarity for solder, such that solder situated on the surface of the circuit board during a soldering procedure penetrates into and fills the intermediate space by capillary action.

2. (Previously presented) HF connector according to claim 1, wherein contact surfaces of the spring blades are in a plane parallel to the plane of the circuit board.

3. (Previously presented) HF connector according to claim 2, wherein the coaxial plug connector has a housing feed-through section for a housing surrounding the circuit board.

4. (Previously presented) HF connector according to claim 3, wherein all the spring blades extend in one plane parallel to the plane of the circuit board.

5. (Previously presented) HF connector according to claim 4, wherein the spring blades of the first pair have only one piece in the region of the contact surface.

6. (Previously presented) HF connector according to claim 5, wherein the spring blades of a pair are angled away from each other at their end facing towards the coaxial plug connector.

7. (Cancelled)

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8. (Currently amended) HF connector according to claim **[[7]] 1**, wherein the housing is a planar component.

9. (Cancelled)

10. (Currently amended) HF connector according to claim **[[9]] 1**, wherein the peg is arranged for engaging a hole in the circuit board **[[1]]**, the peg having at least one detent lug which extends in the radial direction in relation to the peg, beyond the lug outer periphery, the detent lug being arranged on the peg such that the outer periphery of the peg is smaller in the region of the detent lug than the diameter of the hole in the circuit board, whereby the outer periphery of the section of the peg protruding into the hole in the circuit board is such that between the outer periphery of the section of the peg and the inner wall of the hole in the circuit board, over at least a portion of the outer periphery there is an intermediate space with capillarity for solder, such that solder situated on the surface of the circuit board during a soldering procedure penetrates ~~by capillary action~~ into and fills the intermediate space, ~~filling it by capillary action~~.

11. (Previously presented) HF connector according to claim 10, wherein the detent lug is arranged on the peg such that, with the component fully inserted into the circuit board, the detent lug is within the hole in the circuit board.

12. (Previously presented) HF connector according to claim 11, wherein the periphery of the peg in the longitudinal direction over the whole section situated in the hole in the circuit board includes at least one cut-out.

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13. (Cancelled)

14. (Currently amended) HF connector according to claim ~~[[13]]~~ 1, wherein the housing has a cut-out into which the free ends of the spring blades which face towards the coaxial plug connector extend.

15. (Previously presented) HF connector according to claim 1, wherein the coaxial plug connector has a housing feed-through section for a housing surrounding the circuit board.

16. (Previously presented) HF connector according to claim 1, wherein all the spring blades extend in one plane parallel to the plane of the circuit board.

17. (Previously presented) HF connector according to claim 1, wherein the spring blades of the first pair have only one piece in the region of the contact surface.

18. (Previously presented) HF connector according to claim 1, wherein the spring blades of a pair are angled away from each other at their end facing towards the coaxial plug connector.

19. (Previously presented) HF connector according to claim 1, wherein the connector has a housing which carries all the spring blades.

20. (Previously presented) HF connector according to claim 19, wherein the housing has at least one peg which extends away from the housing for engaging the circuit board.

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21. (Currently amended) HF connector according to claim 20, wherein the peg is arranged for engaging a hole in the circuit board[[ 1]], the peg having at least one detent lug which extends in the radial direction in relation to the peg, beyond the lug outer periphery, the detent lug being arranged on the peg such that the outer periphery of the peg is smaller in the region of the detent lug than the diameter of the hole in the circuit board, whereby the outer periphery of the section of the peg protruding into the hole in the circuit board is such that between the outer periphery of the section of the peg and the inner wall of the hole in the circuit board, over at least a portion of the outer periphery there is an intermediate space with capillarity for solder, such that solder situated on the surface of the circuit board during a soldering procedure penetrates ~~by capillary action~~ into and fills the intermediate space, ~~filling it.~~ by capillary action